

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
25 August 2005 (25.08.2005)

PCT

(10) International Publication Number
WO 2005/078193 A1

(51) International Patent Classification⁷: **D21H 27/00**,
D04H 1/72, D01G 25/00

(21) International Application Number:
PCT/FI2005/000088

(22) International Filing Date: 11 February 2005 (11.02.2005)

(25) Filing Language: Finnish

(26) Publication Language: English

(30) Priority Data:
20040218 12 February 2004 (12.02.2004) FI

(71) Applicant (for all designated States except US): **ANPAP OY** [FI/FI]; Kirjaskatu 1, FI-37600 Valkeakoski (FI).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **NIIRANEN, Heikki** [FI/FI]; Jarrumiehentie 19, FI-13210 Hämeenlinna (FI).

(74) Agent: **JVP-PALVELU OY**; Torikatu 4, FI-05800
Hyvinkää (FI).

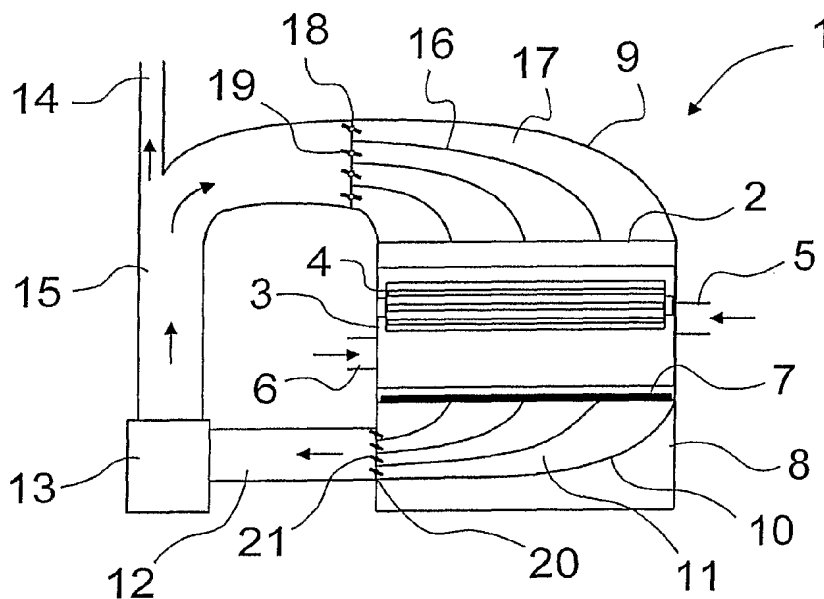
(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:
— with international search report

[Continued on next page]

(54) Title: PROCEDURE AND APPARATUS IN DRY FORMING OF FIBRE LAYER



(57) Abstract: The invention relates to a procedure and an apparatus in dry formation of a fibre layer, in which procedure fibre-containing air is passed through a forming wire (7) moving via a former (2) or an equivalent distributor unit and further through a suction box (8) or equivalent placed below the forming wire, and which air is circulated back to the upper part of the same or another former. In the solution of the invention, the air circulated through the suction box (8) is passed to the upper part of the former via channels (17) with an adjustable flow rate.

WO 2005/078193 A1



— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.